INDEX

JOURNAL OF EVOLUTIONARY BIOCHEMISTRY AND PHYSIOLOGY

Volume 9, Numbers 1-6, 1973

JOURNAL OF EVOLUTIONARY BIOCHEMISTRY AND PHYSIOLOGY
Volume 9, Numbers 1-6, 1973

(A translation of Zhurnal Évolyutsionnoi Biokhimii i Fiziologii)

A

Adzhimolaev, T. A.—60
Airapet'yants, É. Sh.—364
Akulinin, G. E.—463
Aleinikov, Yu. P.—63
Aleinikova, T. V.—63
Alyakrinskaya, I. O.—113
Annenkov, G. A.—116
Apekin, V. S.—47
Ardashev, A. A.—455
Aronshtam, A. A.—37, 408
Ashmarin, I. P.—191
Avrova, N. F.—24

B

Baklanova, S. M.—464
Batuev, A. S.—321
Belekhova, M.—479
Belen'kii, M. A.—312
Berdysheva, L. V.—175
Biochenko, E. A.—10
Boiko, V. P.—476
Borisova, E. A.—55
Borkin, L. Ya.—408
Brik, I. L.—120
Brovenko, E. F.—455
Bukinich, A. D.—185
Burlakov, A. B.—460
Bursian, A. V.—525
Buznikov, G. A.—175, 178, 296
Byzova, Yu. B.—530

C

Chebotarev, M. A.—540
Chilingiris, V. I.—364
Chirkovskaya, E. V.—15
Chobanyan, K. A.—79
Chorayan, O. G.—135
Clairambault, P.—422

D

Daudova, G. M.—205
Davydova, T. V.—476
Dmitrenko, L. V.—453
Dmitrieva, L. E.—343
Dovedova, E. L.—495
Dusaeva, O. N.—457

E

Elkin, V. I.—96
Éngovatov, V. V.—519
Ermolaeva, L. P.—490

F

Faitel'berg-Blank, V. R.—468
Farrer, D. A.—430
Firsov, L. A.—378
Fleishman, D. G.—107
Fomina, M. P.—42

G

Gaidaenko, G. V.—167
Gavrilova, L. P.—1
Gershuni, G. V.—141, 356
Gil'dieva, B. S.—125
Gokhblit, I. I.—258
Gorelkin, V. S.—222, 545
Gorovoi, P. G.—254
Govorukha, A. V.—264
Grekova, N. I.—42
Grigor'eva, G. M.—495
Guncheva, Z. S.—32
Gusel'nikova, K. G.—519
Gzgzyan, D. M.—261, 471

I

Il'in, V. S.—205
Irzhak, L. I.—301
Ivanenko, Yu. V.—364
Ivanov, M. P.—364

K

Kan, G. S.—506
Kanevskii, Yu. P.—107
Karamyan, A.—479
Karpovich, A. L.—272
Kassil', Zh. G.—251, 465
Khachatryan, A. V.—68
Khamidov, D. Kh.—125
Kharkeevich, T. A.—445
Khasabov, G. A.—436
Kheruvimova, V. A.—180
Khokholev, L. S.—247
Klepikov, N. N.—116
Klimenko, E. M.—543
Klimova, V. P.—209
Kondrat'ev, Yu. V.—243
Konstantinova, M. S.—269
Kornienko, I. A.—258
Korotaev, G. V.—455
Korovina, M. V.—502
Kosareva, A. A.—167
Kotrikadze, N. G.—116
Kovacevic, N.—512
Krasil'nikova, V. I.—15, 24
Kreps, E. M.—15, 24, 277, 289
Krestinskaya, T. V.—532
Krichevskaya, A. A.—180
Krushinskii, L. V.—237
Kuntsova, M. Ya.—222
Kuzina, M. M.—261, 471
Kuz'menko, V. A.—84
Kyul'yan, G. M.—116

L

Lebedeva, N. E.—460
Leibson, L. G.—453, 481
Leont'eva, V. G.—464
Levitina, M. V.—24
Lielup, T. B.—249
Lobashev, M. E.—349
Lukhash, A. I.—180
Lyzlova, S. N.—32

M

Magazanik, L. G.—548
Mal'tsev, V. P.—141
Mandel'shtam, Yu. E.—120
Manukhin, B. N.—175, 178
Manusova, N. B.—183, 532
Markova, L. N.—296
Mass, A. M.—90
Matei, V. E.—416
Mazina, T. I.—457
Medvedev, Zh. A.—99
Mel'kovskaya, T. V.—63
Mikhailova, T. A.—249

Mikhel'son, M. Ya.—94
Mil'man, L. S.—490
Moiseeva, E. B.—47
Mokrushov, P. A.—162
Morenkov, É. D.—87
Murav'ev, R. A.—60

N

Natochin, Yu. V.—305
Nechushkina, T. G.—82
Nesterov, V. P.—403
Nikitin, V.—274
Norén, R.—197

O

Obukhova, E. L.—24
Oganesyan, A. S.—79
Ordovskii, D. L.—364
Orlov, R. S.—213
Ostrovskii, D. I.—453
Ozirskaya, E. V.—167

P

Pachaliya, N. A.—116
Pakhomov, A. N.—37, 408
Pesennikova, D. I.—465
Piruzyan, L. A.—60
Pivovarov, A. S.—87
Plisetskaya, É. M.—481, 535
Polenov, A. L.—312
Polkoshnikov, E. V.—90
Polovets, S. S.—370
Polyanskaya, G. G.—349
Pomazanskaya, L. F.—15
Ponomarenko, V. V.—349
Popov, A. V.—152, 227
Pravdina, N. I.—15, 540
Pushkina, N. V.—180

R

Rakich, L.—175, 178, 495
Roberts, E.—387
Rogovin, V. V.—60
Rozhkova, G. I.—157
Rumyantsev, S. N.—411
Rutkevich, S. M.—474

S

Samoilov, M. O.—75
Sergeev, B. F.—364
Shenkerman, É. D.—468
Shevelev, I. A.—370
Shulov, V. F.—152
Shumova, I. A.—267
Shurshalina, G. V.—430
Shvets, M. A.—205
Skorina, L. N.—63
Smirnov, A. A.—15
Smolyaninov, V. V.—272
Sorokin, L. V.—296
Spirin, A. S.—1
Stepushkina, T. A.—509
Supin, A. Ya.—90
Suppes, Z. S.—254
Surina, A. G.—538
Svennerholm, L.—197
Sviderskii, V. L.—337

T

Tanashchuk, O. F.—261, 465
Taran, G. A.—217
Titova, L. K.—445
Tokareva, V. S.—157
Troshikin, V. A.—217
Tsapygina, R. I.—349
Tsitlovskii, L. E.—519
Tumanova, N. L.—167
Turpaev, T. M.—175, 178, 296

V

Vaselkin, N. P.—512
Vasil'eva, V. F.—532
Vasilevskii, N. N.—329
Vas'kovskii, V. E.—254
Vedernikov, Yu. P.—213
Veselkin, N. P.—422
Voino-Yasnetskii, A. V.—343
Volina, E. V.—178
Vorob'eva, K. P.—532
Voronov, I. B.—94
Voronov, V. A.—364

Y

Yakovleva, I. V.—55
Yunev, O. A.—453

Z

Zagorul'ko, T. M.—68
Zasukhina, G. D.—483
Zheludkova, Z. P.—535
Zverzdina, N. D.—296

JOURNAL OF EVOLUTIONARY BIOCHEMISTRY AND PHYSIOLOGY
Volume 9, Numbers 1-6, 1973

(A translation of Zhurnal Évolyutsionnoi Biokhimii i Fiziologii)

Volume 9, Number 1 January-February, 1973

	Engl.	Russ.
"Nonenzymatic" Translation — L. P. Gavrilova and A. S. Spirin	1	3
Compounds of Metals with Flavin Nucleotides in Cell Evolution — E. A. Boichenko	10	14
Phospholipids and Their Fatty Acids in the Brain and Electric Organ of the Ray Torpedo marmorata — E.M. Kreps, V. I. Krasil'nikova, L. F. Pomazanskaya, N.I. Pravdina, A. A. Smirnov, and E. V. Chirkovskaya	15	20
Cerebrosides, Sulfatides, and Gangliosides of Brain and Electric Organ of Ray Torpedo marmorata — E. M. Kreps, N. F. Avrova, V. I. Krasil'nikova, M. V. Levitina, and E. L. Obukhova	24	30
Creatine Kinase of Developing Tadpoles of the Frog Rana temporaria — S. N. Lyzlova and Z. S. Guncheva	32	39
Isoenzyme Spectrum of Chick Embryo Skeletal Muscles Alkaline Phosphatase — A. N. Pakhomov and A. A. Aronshtam	37	45
Hexokinase and Dehydrogenase Activity of Pentosophosphate Pathway in Sympathectomized Rat Testes — M. P. Fomina and N. I. Grekova	42	51
Changes in Antigenic Composition of the Hypophysis of Gobius Melanostomus in Relation to the Sexual Cycle — V. S. Apekin and E. B. Moiseeva	47	56
Thyroid Gland of Sturgeon Acipenser güldenstädti before and after Spawning and when Kept in Hypertonic Sodium Chloride Solution — I. V. Yakovleva and E. A. Borisova	55	65
Electron Microscopic Cytochemistry of Peroxidase Activity in Giant Neurons of the Mollusk Tritonia Diomedia — T. A. Adzhimolaev, R. A. Murav'ev, L. A. Piruzyan, and V. V. Rogovin	60	70
Correlations between Electrophysiological and Cytochemical Indices in Different Functional States of Giant Neurons of the Snail Helix pomatia — T. V. Aleinikova, Yu. P. Aleinikov, T. V. Mel'kovskaya, and L. N. Skorina	63	72
Electrophysiological Study of Pretectal Region of Rat Visual System — A. V. Khachatryan and T. M. Zagorul'ko	68	77
Electron Microscopic Study of Neocortical Links with the Hypothalamus in the Cat — M. O. Samoilov	75	86
BRIEF COMMUNICATIONS		
Effect of L-Glutamic and L-Aspartic Acids on Respiration of Sections of Cortical Layer of Kidneys of Developing White Rats — A. S. Oganesyan and K. A. Chobanyan	79	89
Deamination of some Biogenic Amines by Human Fetal Liver Mitochondrial Monoaminoxidase — T. G. Nechushkina	82	91
Effect of Stimulation of Central Region of Vagus Nerve on Arterial Pressure and Tachycardia in Kittens — V. A. Kuz'menko	84	93
Characteristics of Intracellular Reactions of Neurons of the General Cortex of the Forebrain of the Tortoise Emys orbicularis upon Electrical Stimulation of Optic Tracts — É. D. Morenkov and A. S. Pivovarov	87	95
Some Properties of Visual Elements of Cortex and Superior Colliculus of Squirrel Sciurus vulgaris — A. M. Mass, E. V. Polkoshnikov, and A. Ya. Supin	90	98

BOOK REVIEWS

Hans Fischer. Comparative Pharamacology of Mediators (Handbook on Experimental Pharmacology, Vol. 26) [in German] – Reviewed by M. Ya. Mikhel'son and I. B. Voronov 94 102

CHRONICLES

Problems of Evolutionary Genetics at Second Congress of N. I. Vavilov All-Union Society of Geneticists and Breeders – V. I. Elkin 96 104

Volume 9, Number 2 March-April, 1973

The Repetition of Genetic Information as a Possible Factor in Evolutionary Changes during Individual Life Spans – Zh. A. Medvedev 99 113

Use of Natural Na^{22} to Study Sodium Exchange in Migratory Teleosts and Lampreys under Natural Conditions – D. G. Fleishman and Yu. P. Kanevskii 107 123

Myoglobin Content in the Univalve Mollusks Rapana thomasiana and Nassa reticulata – I. O. Alyakrinskaya. 113 130

Comparative Data on the Protein Spectra of Chimpanzee, Gorilla, and Human Blood Serum – G. A. Annenkov, N. N. Klepikov, N. A. Pachaliya, G. M. Kyul'yan and N. G. Kotrikadze 116 133

Properties of Cholinesterase of the Locust Locusta migratoria Nervous System – I. L. Brik and Yu. E. Mandel'shtam 120 138

Corticosteroid Regulation of Hemopoiesis in Fish – B. S. Gil'dieva and D. Kh. Khamidov 125 144

Neurohormonal Regulation of Heat Exchange in Birds – S. K. Karapetyan and R. A. Arutyunyan 130 150

Characteristics of Impulse Fluxes of Cells of the Sixth Abdominal Ganglion of the Crayfish Astacus astacus – O. G. Chorayan. 135 155

Some General Characteristics of Impulse Sequences in Bioacoustical Signals – G. V. Gershuni and V. P. Mal'tsev 141 162

Study of the Significance of some Parameters of Calling Signals of Male Crickets Gryllus bimaculatus for Phonotaxis of Females – V. F. Shulov and A. V. Popov . 152 177

Reactions of Neurons of the Last Abdominal Ganglion of the Cricket Gryllus domesticus to Air Currents and Sound Signals of Different Directions – V. S. Tokareva and G. I. Rozhkova 157 183

Neurons Sensitive to Movement of Contrasting Objects in Larvae of the Dragonfly Aeschna cyanea – P. A. Mokrushov and L. I. Frantsevich 162 189

Structural Organization of the Nucleus Rotundus of the Tortoise Emys orbicularis – A. A. Kosareva, E. V. Ozirskaya, N. L. Tumanova, and G. V. Gaidaenko . . . 167 195

BRIEF COMMUNICATIONS

Binding of Biogenic Monoamines by Sea Urchin Egg Cells – B. N. Manukhin, G. A. Buznikov, L. Rakich, L. V. Berdysheva, and T. M. Turpaev 175 202

Monoamines in the Electric Organ and Central Nervous System of the Ray Torpedo marmorata – T. M. Turpaev, L. Rakich, B. N. Manukhin, E. V. Volina, and G. A. Buznikov 178 205

Amidation of Brain Proteins of Vertebrates and Possible Causes of the Different Stabilities of the Amide Bond – A. A. Krichevskaya, A. I. Lukash, N. V. Pushkina, and V. A. Kheruvimova 180 206

Cytophotometric Study of Dehydrogenase Activity in Vertebrate Nephron Cells – N. B. Manusova 183 209

Structure of Adrenergic Apparatus of Mammalian and Avian Blood Vessels — A. D. Bukinich 185 211

ANNIVERSARIES

Il'Ya Arkad'evich Arshavskii (on his Seventieth Birthday) 188 215

Volume 9, Number 3 May-June, 1973

Neurological Memory as the Probable Product of the Evolution of Other Forms of Biological Memory — I. P. Ashmarin 191 217

Lipid Composition and Phosphoglyceride Fatty Acid Patterns of the Nervous Tissue in Squid, Lobster, Dogfish, and Cod — R. Norén and L. Svennerholm 197 225

Unesterified Fatty Acids of the Blood in Different Physiological States of the Gopher Citellus suslicus — V. S. Il'in, G. M. Daudova, and M. A. Shvets 205 235

The Effect of Food Intake on Functional State of the Pancreas of Rodents with Different Nutritional Stereotypes — V. P. Klimova 209 240

Effect of Acetylcholine, Noradrenalin, and Calcium on the Action Potential of the Atrium Cordis of the Roach Rutilus rutilus — Yu. P. Vedernikov and R. S. Orlov 213 245

The Convergence of Afferent Inputs on Mesocerebral Neurons of the Mollusk Planorbarius corneus — G. A. Taran and V. A. Troshikin 217 250

Ipsi- and Contralateral Control of m. abductor Neurons of the Crayfish Astacus leptodactylus — V. S. Gorelkin and M. Ya. Kuntsova 222 257

Frequency Selectivity of the Response of Auditory Neurons of First Thoracic Ganglion of the Cricket Gryllus bimaculatus — A. V. Popov 227 265

Comparative Physiological Aspects of the Study of Complex Forms of Animal Behavior — L. V. Krushinskii 237 278

Electron Microscopic Study of the Chiasma of Frogs and Mice — Yu. V. Kondrat'ev 243 285

BRIEF COMMUNICATIONS

The Average Degeneracy of Cytochrome Coding — L. S. Khokholev 247 289

The Relationship Between Free Cholesterol and Its Esters in the Aortal Wall and Blood Serum of Chick Embryos and Chicks — T. B. Liélup and T. A. Mikhailova 249 290

Histochemical Study of Oxidative Enzymes of the Stomach Mucosa in Postnatal Ontogenesis of Rats — Zh. G. Kassil' 251 292

The Distribution of Phospholipase D in Plants — V. E. Vas'kovskii, Z. S. Suppes, and P. G. Gorovoi 254 294

The Effect of Pituitrin on Thermoregulatory Heat Production in One-Month-Old Rats — I. A. Kornienko and I. I. Gokhblit 258 298

Effect of Neurohypophyseal Hormones and Insulin on Motor Activity of the Stomach of the Scorpion Fish Scorpaena porcus — D. M. Gzgzyan, M. M. Kuzina, and O. F. Tanassiichuk 261 301

Some Characteristics of the Spontaneous Activity of Neurons of the Pedal Ganglion of the Mollusk Planorbarius corneus — A. V. Govorukha 264 303

Histochemical Study of the Bifunctional Wing Muscles of the Asiatic Locust Locusta migratoria — I. A. Shumova 267 306

Monoamines in Periventricular Hypothalamic Nerve Cells of the Lamprey Lampetra fluviatilis — M. S. Konstantinova 269 307

Locomotor Memory of the Millipede Julus sp. — V. V. Smolyaninov and A. L. Karpovich 272 309

BOOK REVIEWS

A. V. Palladin, Ya. V. Belik, and N. M. Polyakova. Proteins of the Brain and Their Metabolism — Reviewed by V. Nikitin 274 311

É. Sh. Airapet'yants (editor). The Signalling of Marine Animals — Reviewed by E. Kreps. 277 312

OBITUARIES
Aleksandr Vladimirovich Palladin (1885-1972) 279 314
Akop Artashesovich Markosyan (1904-1972) 281 315
Galina Alekseevna Obraztsova (1913-1972) 283 317
Aleksandr Alekseevich Smirnov (1903-1972) 285 318

Volume 9, Number 4 July-August, 1973

The Sixth Conference and Symposium on Evolutionary Physiology 287 325
Physiologically Active Molecules and Their Evolution — E. M. Kreps 289 327
The Possible Mechanism of the Regulation of Mediator Functions during Preneural Embryogenesis — G. A. Buznikov, N. D. Zvezdina, L. N. Markova, L. V. Sorokin, and T. M. Turpaev 296 335
Types of Hemoglobin in the Ontogenesis of the Reindeer Rangifer tarandus — L. I. Irzhak 301 341
Relationship of Filtration—Reabsorption and Secretory Processes in the Evolution of the Osmo- and Ionoregulatory Function of the Kidneys — Yu. V. Natochin 305 346
Some Principles of the Development of Neurohemal Regions of the Hypothalamic —Hypophyseal Neurosecretory System in the Ontogenesis and Phylogenesis of Vertebrates — A. L. Polenov and M. A. Belen'kii 312 355
Mechanisms of Convergence in the Phylogenesis of the Integrative Systems of the Brain — A. S. Batuev 321 364
Adaptive Self-Regulation of Functions and Its Connection with Dynamic Control of Endogenous Biorhythms — N. N. Vasilevskii 329 374
Mechanisms of Neural Control of the Locomotor Activity of Insects — V. L. Sviderskii 337 383
Synchronization and Desinchronization of the Rhythms of Brain Activity in Ontogenesis — A. V. Voino-Yasenetskii and L. E. Dmitrieva 343 390
The Role of the Nervous System in the Regulation of Various Genetic and Cytogenetic Processes — M. E. Lobashev, V. V. Ponomarenko, G. G. Polyanskaya, and R. I. Tsapygina 349 398
The Sound Environment and the Functional Organization of the Auditory System — G. V. Gershuni 356 406
The Physiology of the Sonar System of Black Sea Dolphins — É. Sh. Airapet'yants, V. A. Voronov, Yu. V. Ivanenko, M. P. Ivanov, D. L. Ordovskii, B. F. Sergeev, and V. I. Chilingiris 364 416
Characteristics of the Neuronal Apparatus of the Night and Day Vision of the Cat and Hypotheses Concerning Their Evolutionary–Ecological Origin — I. A. Shevelev and S. S. Polovets 370 423
A Physiological Study of Plastic Forms of Behavior in Anthropoids (Formulation of the Problem) — L. A. Firsov 378 433

OBITUARY
Andrei Nikolaevich Belozerskii (1905-1972) 384 441

Volume 9, Number 5 September-October, 1973

A Model of the Vertebrate Nervous System Based Largely on Disinhibition: a Key Role of the GABA System — E. Roberts 387 445

Sodium and Potassium in Skeletal Muscles of Maturely and Immaturely Born Animals in Embryonic and Postnatal Ontogenesis — S. M. Baklanova, V. G. Leont'ev, V. P. Nesterov, and I. A. Skul'skii 403 464
The Fractional Composition of Multiple Forms of Esterases and Proteins in Tortoise Tissues — A. N. Pakhomov, A. A. Aronshtam, and L. Ya. Borkin..... 408 470
Biological Function of Clostridium tetani Toxin (Ecological and Evolutionary Aspects) — S. N. Rumyantsev 411 474
Hypothalamic—Hypophyseal Neurosecretory System of Guppy Lebistes reticulatus in Chronic Phenol Poisoning — V. E. Matei 416 481
Anatomical, Histological, Embryological, and Physiological Studies of Amygdala of Tailless Amphibians — P. Clairambault and N. P. Veselkin..... 422 487
Development of Corticofugal Links in Visual Analyzer System in Postnatal Ontogenesis of Rabbits — D. A. Farber and G. V. Shurshalina 430 495
Comparative Study of Convulsive Activity in Monkeys and Rabbits — G. A. Khasabov . 436 502
Cytological and Ultrastructural Organization of the Statocyst of the Lugworm Arenicola marina — L. K. Titova and T. A. Kharkeevich 445 513

BRIEF COMMUNICATIONS

Crystalline Chicken Insulin. Isolation and Some Chemical and Biological Properties — O. A. Yunev, L. G. Leibson, D. I. Ostrovskii, and L. V. Dmitrenko 453 521
The 11-Oxycorticosteroid Level in the Blood Plasma of Plagiostomi and Teleostei — G. K. Korotaev, A. A. Ardashev, and E. F. Brovenko..... 455 523
Effect of Subecholine on Substantia Medullaris of the Adrenal Glands of Chick Embryos — O. N. Dusaeva and T. I. Mazina..... 457 524
Lipoproteins, Mucopolysaccarides, and Isoenzymes in Skin and Mucus of Phoxinus phoxinus — N. E. Lebedeva and A. B. Burlakov..... 460 527
Histochemistry of the Mucoproteins of the Intestinal Mucosa of the Gerbil — G. E. Akulinin..... 463 529
Formation of Proteases in Oxyntopeptic Cells of Rana temporaria Stomach — Zh. G. Kassil', D. I. Pesennikova, and O. F. Tanasiichuk 465 531
Effect of Microwaves on Absorption of Methionine and Phosphate in Duodenum of Chicks and Chickens — V. R. Faitel'berg-Blank and É. D. Shenkerman 468 534
Motor Activity of Stomach of Black Sea Ray Dasyatis pastinaca — D. M. Gzgzyan and M. M. Kuzina 471 536
Effect of Calcium on Myocardial Contractility of Roach Rutilus rutilus lacustris — S. M. Rutkevich 474 539
Comparative Study of Functional and Morphological Characteristics of Mesencephalic Neurons of the Tortoise Emys orbicularis — V. P. Boiko and T. V. Davydova,..... 476 541

BOOK REVIEWS

Neural Mechanisms in Animal Behavior. I. Turtle — Reviewed by A. Karamyan and M. Belekhova..... 479 544
G. E. Shul'man. Physiological and Biochemical Characteristics of Annual Cycles of Fish — Reviewed by Ê. M. Plisetskaya and L. G. Leibson..... 481 545

Volume 9, Number 6 November-December, 1973

Reparation as a Function of the Normal Cell and Methods of Affecting It — G. D. Zasukhina 483 549
Characteristics of NADPH Generation in Oocytes and Embryos of the Loach Misgurnus fossilis — L. P. Ermolaeva and L. S. Mil'man 490 558
Biochemical Characterization of Subcellular Fractions from the Nervous System of the Electric Ray Torpedo marmorata — E. L. Dovedova, L. Rakich,

and G. M. Grigor'eva 495 564
The Tonic Effect of the Parasympathetic Nerves on the Hearts of Newborn Rabbits and Dogs – M. V. Korovina 502 573
A Study of the Activity of Efferent Neurons during Reflex Closure of the Claw Dactylopodite of the Crayfish Astacus leptodactylus – T. A. Stepushkina and G. S. Kan 506 578
Nonolfactory Afferent Projections of the Telencephalon of Elasmobranchii – N. P. Veselkin and N. Kovacevic 512 585
Early Inhibition in the Olfactory Bulb of Frogs – K. G. Gusel'nikova, L. E. Tsitolovskii, and V. V. Éngovatov. 519 593
The Development of the Stretch Reflex in Young Rats – A. V. Bursian 525 600

BRIEF COMMUNICATIONS

Carbonic Anhydrase in the Hemolymph of the Beetle Blaps scutellata – Yu. B. Byzova. . 530 607
Succinate Dehydrogenase and Na-K-Adenosine Triphosphatase Activity in Nephron Cells of the Scorpion Fish Scorpaena porcus – V. F. Vasil'eva, K. P. Vorob'eva, T. V. Krestinskaya, and N. B. Manusova. 532 608
The Effect of Adrenalin on the Amylase Activity of the Liver and Muscles of the Lamprey Lampetra fluviatilis – É. M. Plisetskaya and Z. P. Zheludkova 535 611
Lung Phospholipids in Rats, Rabbits, and Dogs – A. G. Surina. 538 613
Fatty Acids of the Brain Phospholipids of the Eel Anguilla anguilla and the Ray Dasiatis pastinaca – N. I. Pravdina and M. A. Chebotareva 540 615
The Catecholamine Content in Splanchnic Nerve Fibers of Rabbits and Cats in Postnatal Ontogenesis – E. M. Klimenko 543 618
Peripheral Mechanisms of Stabilization of the Rhythm of Operation of the Wing Apparatus in the Cockroach Periplaneta americana – V. S. Gorelkin 545 620

BOOK REVIEWS

Donald F. H. Wallach. The Plasma Membrane: Dynamic Perspectives, Genetics, and Pathology – Reviewed by L. G. Magazanik. 548 623

INDEX

Author Index, Volume 9, Numbers 1-6, 1973. 553
Tables of Contents, Volume 9, Numbers 1-6, 1973. 555